A. Kruskal-Wallis test results

1. Migration network connectivity (comparing mean network degree for each age, gender, rural-urban stratified network):

Comparing mean degree between the networks using the Kruskal-Wallis test showed that Ugandan rural and urban females were significantly different and Ugandan urban females and rural males were significantly different. All other gender-rural-urban stratified networks were not statistically different from each other. Statistical comparisons were also made for age groups. In Kenya, the 10-20 year age group was statistically different from the 50-60 and 60 plus age groups, and the 20-30 year age group was statistically different from the 50-60 and 60 plus age groups. In Tanzania, statistically significant differences were seen between the 20-30 year age group and the 50-60 and 60 plus age groups. In Uganda, no statistically significant differences between age groups were seen for connectivity.

2. Migration magnitude (comparing mean network strength for each age, gender, rural-urban stratified network):

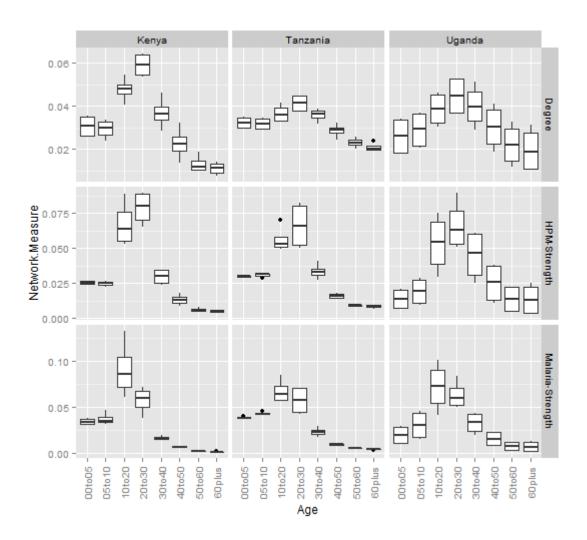
HPM flow networks showed no statistical differences between gender-rural-urban groups for any country. However, differences in magnitudes of flows were seen between age groups in Kenya and Tanzania, between 10-20 and 50-60 year age groups, 10-20 and 60 plus age groups, 20-30 and 50-60 year age groups and 20-30 and 60 plus age groups.

3. Relative malaria movement magnitude (comparing mean network strength for each age, gender, rural-urban stratified malaria-weighted network):

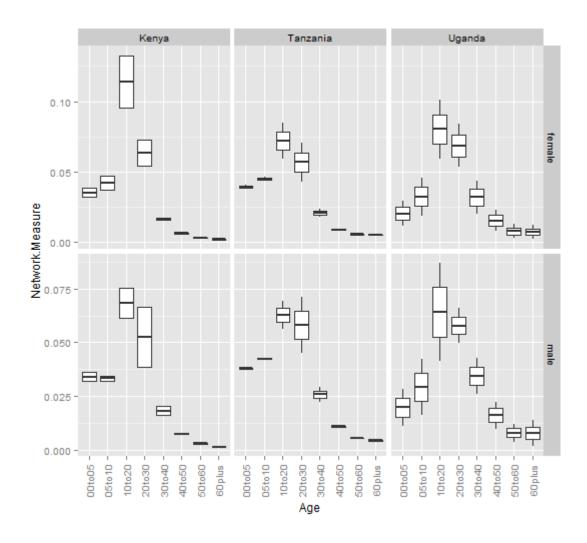
Comparing HPM flow networks showed no statistically significant differences between gender-rural-urban groups for any country. However, differences in magnitudes of flows were seen between age groups. In Uganda, statistically significant differences in malaria movement were seen between the 10-20 and 50-60 year age groups, 10-20 and 60 plus age groups, 20-30 and 50-60 year age groups and 20-30 and 60 plus age groups. In Kenya, statistically significant differences in malaria movement were seen between the 10-20 and 50-60 year age groups, 10-20 and 60 plus age groups, and 20-30 and 50-60 year age groups. In Tanzania, statistically significant differences in malaria movement were seen 5-10 and 60 plus age groups, 10-20 and 60 plus age groups, 20-30 and 50-60 year age groups and 20-30 and 60 plus age groups.

B. Boxplots

1. Within age group variation in connectivity, HPM flow magnitudes and malaria movement in Kenya, Tanzania and Uganda



2. Within age group variation in malaria movement, stratified by gender, for Kenya, Tanzania and Uganda



3. Within age group variation in malaria movement, stratified by rural-urban status, for Kenya, Tanzania and Uganda

